CLAIM AMENDMENTS

- 1-57 (Cancelled)
- 58. (New) A composition for increasing carnitine retention in the animal and/or human biological tissue, the composition comprising a carnitine substance and an agent to increase blood/plasma insulin concentration.
- 59. (New) A composition for use in the manufacture of a medicament to influence carnitine retention in the animal and/or human biological tissue, the composition comprising a carnitine substance and an agent to stimulate insulin release in the body.
- 60. (New) A composition according to claim 58 wherein the agent is operable to increase sodium dependent carnitine uptake into tissue cells, in particular skeletal muscle, liver and/or kidney cells.
- 61. (New) A composition according to claim 58 wherein the agent is operable to increase insulin activity in the tissue.
- 62. (New) A composition according to claim 61 wherein the agent is operable to increase insulin activity in the tissue by increasing the amount of insulin in the blood/plasma.
- 63. (New) A composition according to claim 58 wherein the agent comprises a carbohydrate, and/or an active derivative thereof, and/or an amino acid and/or a protein.
- 64. (New) A composition according to claim 63 wherein the agent is a carbohydrate and/or a derivative of a carbohydrate.
- 65. (New) A composition according to claim 63 wherein the carbohydrate is a simple carbohydrate, and/or the derivative of the carbohydrate is a derivative of a simple carbohydrate.
- 66. (New) A composition according to claim 64 wherein the carbohydrate is a simple sugar, and/or the derivative of the carbohydrate is a derivative of a simple sugar.
- 67. (New) A composition according to claim 65 wherein the carbohydrate comprises glucose, sucrose, and/or fructose, and/or the

derivative of the carbohydrate is a derivative of glucose, sucrose and/or fructose.

- 68. (New) A composition according to claim 58 wherein the amount by weight of the agent is between 10 and 150 times the amount by weight of the carnitine substance.
- 69. (New) A composition according to claim 58 wherein the amount by weight of the agent is between 10 and 95 times the amount by weight of the carnitine substance.
- 70. (New) A composition according to claim 58 wherein the amount by weight of the agent is between 10 and 40 times the amount by weight of the carnitine substance.
- 71. (New) A composition according to claim 58 comprising substantially 0.25g to 3g carnitine substance and between 2.5g and 450g of the agent.
- 72. (New) A composition according to claim 58 comprising substantially 0.25g to 3g carnitine substance and between 2.5g and 285g of the agent.
- 73. (New) A composition according to claim 58 comprising substantially 0.25g to 3g carnitine substance and between 2.5g and 120g of the agent.
- 74. (New) A composition according to claim 58 in the form of a solution.
- 75. (New) A composition according to claim 58 in the form of an aqueous solution.
- 76. (New) A food supplement comprising a carnitine substance and an agent to increase blood/plasma insulin concentration.
- 77. (New) A food supplement according to claim 76 wherein the agent is operable to increase sodium dependent carnitine uptake into tissue cells, in particular skeletal muscle, liver and/or kidney cells.

- 78. (New) A food supplement according to claim 76 wherein the agent is operable to increase insulin activity in the tissue.
- 79. (New) A food supplement according to claim 78 wherein the agent is operable to increase the insulin activity in the tissue by increasing the amount of insulin in the blood/plasma.
- 80. (New) A food supplement according to claim 76 wherein the agent comprises a carbohydrate, and/or an active derivative thereof and/or an amino acid and/or a protein.
- 81. (New) A food supplement according to claim 80 wherein the agent is a carbohydrate and/or a derivative of a carbohydrate.
- 82. (New) A food supplement according to claim 80 wherein the carbohydrate is a simple carbohydrate and/or the derivative of the carbohydrate is a derivative of a simple carbohydrate.
- 83. (New) A food supplement according to claim 82 wherein the carbohydrate is a simple sugar, and/or the derivative of the carbohydrate is a derivative of a simple sugar.
- 84. (New) A food supplement according to claim 81 wherein the carbohydrate comprises glucose, sucrose and/or fructose, and/or the derivative of the carbohydrate comprises a derivative of glucose, sucrose and/or fructose.
- 85. (New) A food supplement according to claim 76 wherein the amount by weight of the agent is between 10 and 150 times the amount by weight of the carnitine substance.
- 86. (New) A food supplement according to claim 76 wherein the amount by weight of the agent is between 10 and 95 times the amount by weight of the carnitine substance.
- 87. (New) A food supplement according to claim 76 wherein the amount by weight of the agent is between 10 and 40 times the amount by weight of the carnitine substance.

- 88. (New) A food supplement according to claim 76 comprising substantially 0.25g to 3g carnitine substance and between 2.5g and 450g of the agent.
- 89. (New) A food supplement according to claim 76 comprising substantially 0.25g to 3g carnitine substance and between 2.5g and 285g of the agent.
- 90. (New) A food supplement according to claim 76 comprising substantially 0.25g to 3g carnitine substance and between 2.5g and 120g of the agent.
- 91. (New) A food supplement according to claim 76 in the form of a solution.
- 92. (New) A food supplement according to claim 76 in the form of an aqueous solution.
- 93. (New) A method of increasing carnitine retention in the animal and/or human biological tissue, the method comprising administering to the body a carnitine substance and an agent to increase blood/plasma insulin concentration.
- 94. (New) A method according to claim 93 wherein the method increase carnitine retention in the tissue by increasing the transportation of the carnitine substance, or a derivative thereof into tissue cells.
- 95. (New) A method according to claim 94 wherein transportation is increased by stimulation of a sodium dependent transport protein and substantially simultaneously increasing blood/plasma carnitine concentration.
- 96. (New) A method according to claims 93 wherein the agent is operable to increase sodium dependent carnitine uptake into tissue cells, in particular skeletal muscle, liver and/or kidney cells.
- 97. (New) A method according to claim 93 wherein the agent is operable to increase insulin activity in the tissue.

- 98. (New) A method according to claim 97 wherein the agent is operable to increase insulin activity in the tissue by increasing the amount of insulin in the blood/plasma.
- 99. (New) A method according to claim 93 wherein the agent comprises a carbohydrate, and/or an active derivative thereof, and/or an amino acid and/or a protein.
- 100. (New) A method according to claim 99 wherein the agent is a carbohydrate and/or a derivative of a carbohydrate.
- 101. (New) A method according to claim 99 wherein the carbohydrate is a simple carbohydrate, and/or the derivative of the carbohydrate is a derivative of a simple carbohydrate.
- 102. (New) A method according to claim 101 wherein the carbohydrate is a simple sugar, and/or the derivative of the carbohydrate is a derivative of a simple sugar.
- 103. (New) A method according to claim 101 wherein the carbohydrate comprises glucose, sucrose and/or fructose, and/or the derivative of the carbohydrate is a derivative of glucose, sucrose and/or fructose.
- 104. (New) A method according to claim 93 wherein the method involves oral administration and ingestion of the carnitine substance and agent.
- 105. (New) A method according to claim 104 wherein the oral administration and ingestion of the carnitine substance and the agent occurs simultaneously.
- 106. (New) A method according to claim 93 wherein the amount by weight of the agent is between 10 and 150 times the amount by weight of the carnitine substance.
- 107. (New) A method according to claim 93 wherein the amount by weight of the agent is between 10 and 95 times the amount by weight of the carnitine substance.

- 108. (New) A method according to claim 94 wherein the amount by weight of the agent is between 10 and 40 times the amount by weight of the carnitine substance.
- 109. (New) A method according to claim 93 wherein substantially 0.25g to 3g of the carnitine substance and between 2.5g and 450g of the agent are administered.
- 110. (New) A method according to claim 87 when substantially 0.25g to 3g of the carnitine substance and between 2.5g and 285g of the agent are administered.
- 111. (New) A method according to claim 93 wherein substantially 0.25g to 3g of the carnitine substance and between 2.5g and 120g of the agent are administered.